



# CITY OF SANTA BARBARA

## COUNCIL AGENDA REPORT

**AGENDA DATE:** June 19, 2012

**TO:** Mayor and Councilmembers

**FROM:** Water Resources Division, Public Works Department

**SUBJECT:** Contract For Asset Management Program Development Services For  
The Water Distribution System

### RECOMMENDATION:

That Council authorize the Public Works Director to execute a contract with Brown and Caldwell in the amount of \$437,842 to provide Asset Management Program Development Services for the Water Distribution System, and authorize the Public Works Director to approve expenditures of up to \$43,784 for extra services of Brown and Caldwell that may result from necessary changes in the scope of work, for a total amount not to exceed \$481,626.

### DISCUSSION:

The City's Water Distribution System (WDS) is comprised of 11 pump stations, 13 reservoirs, 18 pressure reducing stations, 304 miles of water mains, and thousands of valves, fire hydrants and related appurtenances necessary to provide the City's water customers with the delivery of safe drinking water. The replacement cost for the WDS assets is estimated to exceed \$300 million, which underscores the importance of maintaining the system and maximizing the life span of individual assets.

The City's Water Resources Division has a Capital Improvement Program to regularly construct capital projects in the WDS. Each fiscal year, the Water Main Improvement Program replaces, on average, one percent of the City's water mains. In addition to water mains, the WDS has many mechanical processes, facilities, and sophisticated computer programs that need continual maintenance and upgrades, all of which require a significant investment of resources.

The best approach to managing WDS assets is through a well-planned and organized Asset Management Program (AMP). An AMP involves performing a risk analysis on critical system equipment and developing a detailed asset inventory. The information is used to create a computerized work order system for prioritizing tasks and scheduling

preventative maintenance to ensure reliable and consistent system operations and to maximize equipment lifecycles.

Brown and Caldwell (B&C) was chosen to develop an AMP for the WDS assets through a competitive Request For Proposal process. B&C has successfully completed the first phase of work, which was to perform an initial assessment of the WDS. B&C reviewed Water Distribution operations and maintenance records and interviewed Water Distribution staff about their operations and maintenance activities. B&C submitted its findings in a technical memorandum, which will be used as a framework for developing an AMP for the WDS.

The AMP will include creating an asset hierarchy and inventory list, performing a WDS asset risk analysis, and conducting a condition assessment of Water Distribution's many mechanical processes and facilities. B&C will input the data into the City's existing computer maintenance management system to prioritize tasks and schedule preventative maintenance. B&C's scope of work includes optimizing Water Distribution's existing business practices, creating a long-range Capital Improvement Program replacement schedule, and projecting annual funding levels needed to support the AMP.

B&C and Carollo Engineers, Inc. were the only two out of twenty-one firms to submit proposals in response to the City's request for proposals. B&C was selected to perform this work based on its success with providing similar services to numerous other public utility agencies with similar asset management support needs.

#### **BUDGET/FINANCIAL INFORMATION:**

This project was anticipated and there are adequate appropriated funds in the Water Fund for this work.

**PREPARED BY:** Catherine Taylor, Water System Manager/mh

**SUBMITTED BY:** Christine F. Andersen, Public Works Director

**APPROVED BY:** City Administrator's Office